



Enabling The Standard for Automated Demand Response

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OpenADR Alliance Overview

- 100+ member organization comprised of a diverse set of industry stakeholders interested in fostering global OpenADR adoption
- Foster global development, adoption, and compliance of Open Automated Demand Response (OpenADR) standards through collaboration, education, testing, and certification.
- Leverages Smart Grid-related standards efforts from SGIP, OASIS, UCAIug and NAESEB
- Enables stakeholders to participate in automated DR, dynamic pricing, and electricity grid reliability



Honeywell



ALSTOM



DAIKIN McQUAY



HITACHI
Inspire the Next

Intertek



SDGE



SIEMENS



SIEMENS



TRID!UM

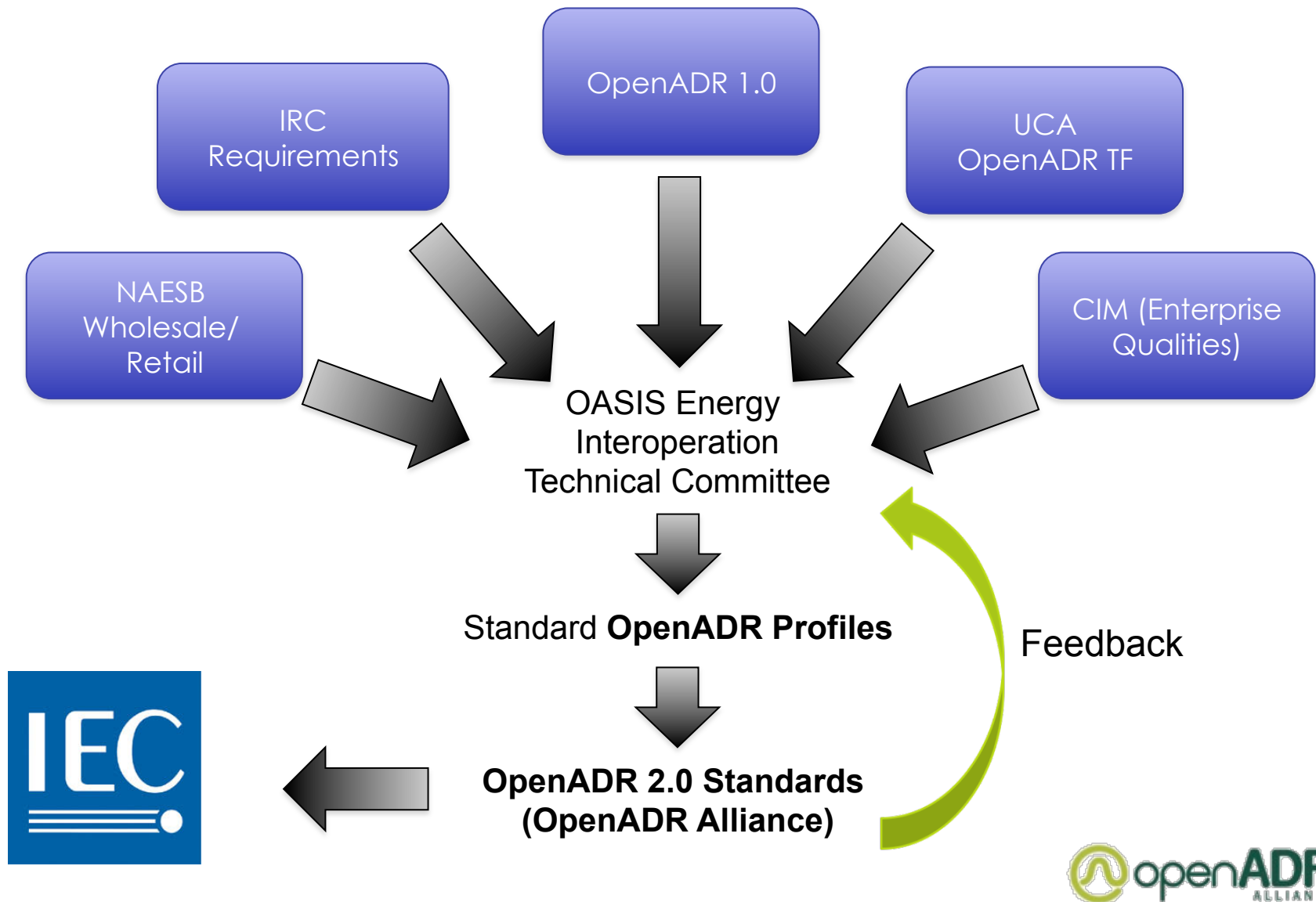


Alliance Goals

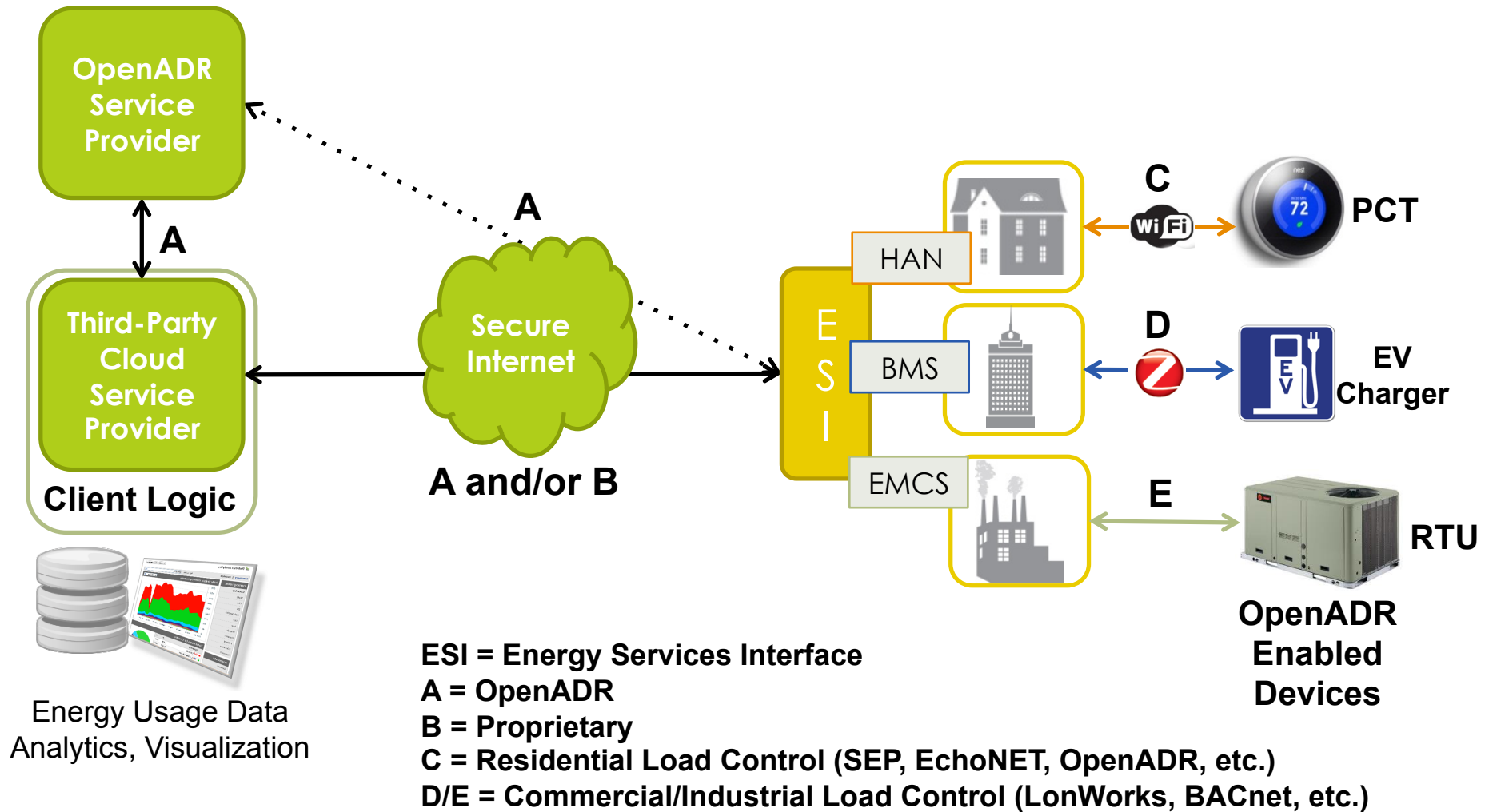
- Coordination with standards organizations for development of OpenADR technologies
- Implementation of global testing and compliance
- Education on the standards, implementation, policy and markets
- Adoption and market acceptance and of OpenADR

Enabling Global Scaling of Automated Demand Response To Meet Generation Needs for Peak and Renewable Integration

OpenADR 2.0

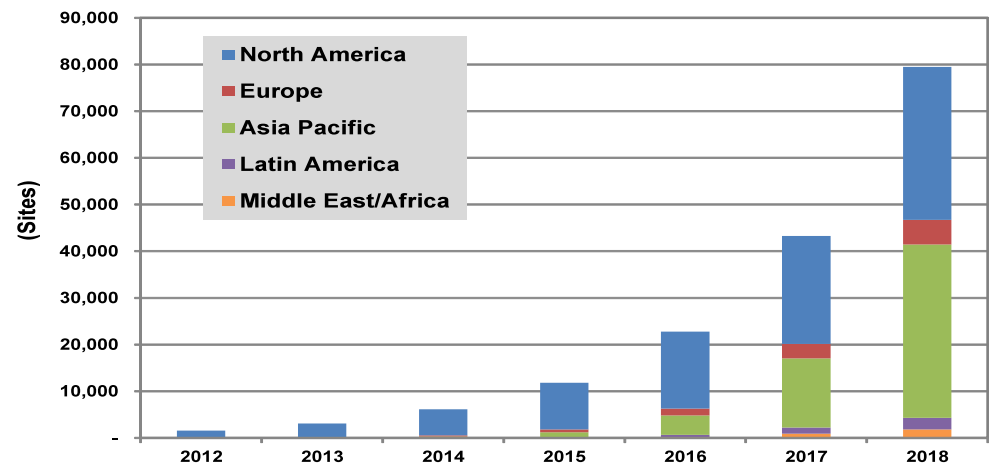


Information Interoperability



Factors Driving Adoption

- ❑ OpenADR 2.0 is an industry standard
- ❑ Over 100 companies are developing OpenADR products
- ❑ Solutions will be cost competitive due to standardized interfaces from multiple suppliers
- ❑ Title 24 requires *automatic demand shed controls* in most buildings
- ❑ California IOUs are developing OpenADR programs
- ❑ Utilities and system operators worldwide are adopting OpenADR



Conclusion

- **Standardize** the interface between electricity markets and customers
- **Automate** the customer resource to fluctuating energy prices and grid instability
- **Simplify** your energy future and maximize the value of your DR capacity



Thank You!

Q&A

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